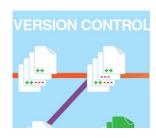


Pre-knowledge....

Before understanding Github Technology



Version Control System

Management of changes to documents, computer programs, large web sites, and other collections of information



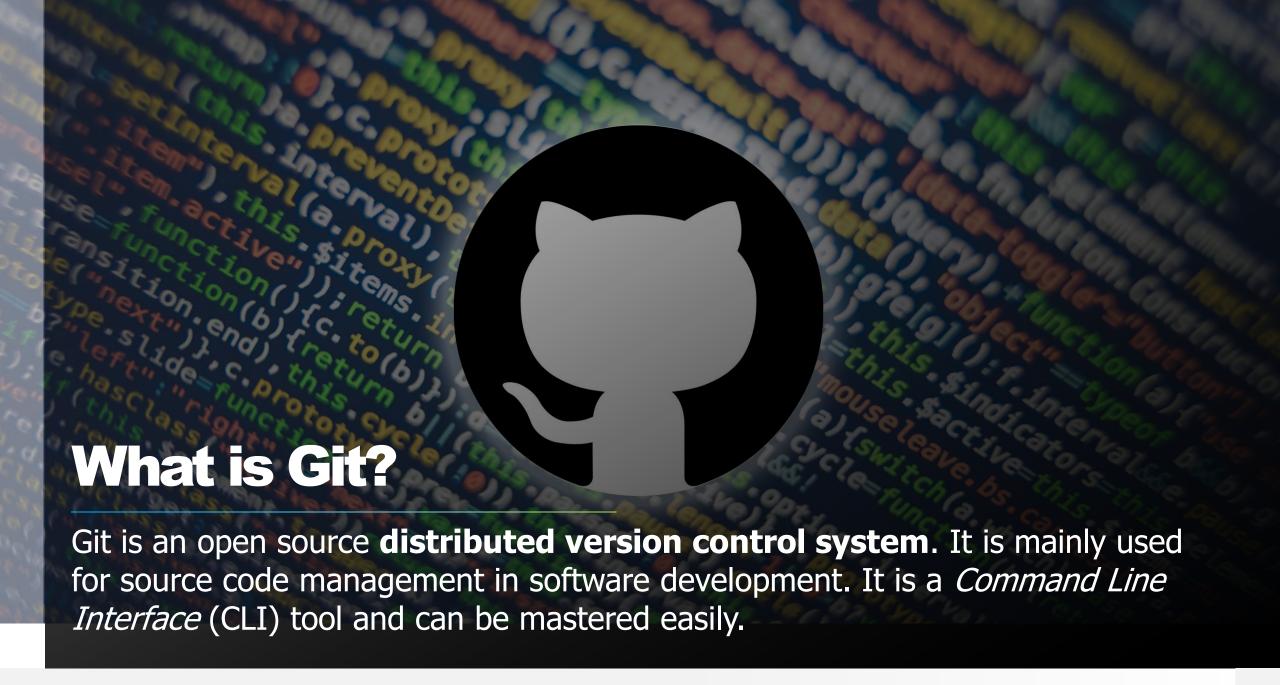
Git

Distributed Version Control System, a command line tool

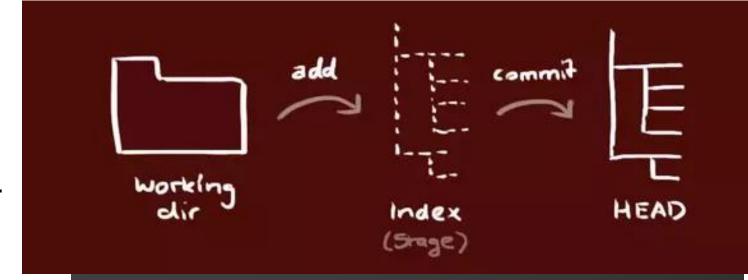


Github

Provides a web-based graphical interface that works on top of Git



- Create a new repository You start by creating a repository which will be the place where you store all your files.
- Workflow Your local repository consists of three "trees" maintained by git.
 - a. The first one is your Working
 Directory which holds the actual files.
 - b. The **second** one is the Index which acts as a staging area.
 - c. The **third** HEAD which points to the last commit you've made.
- 3. Add & commit You can propose changes (add it to the Index) using git command add. This is the first step in the basic git workflow. To actually commit these changes use another command commit.



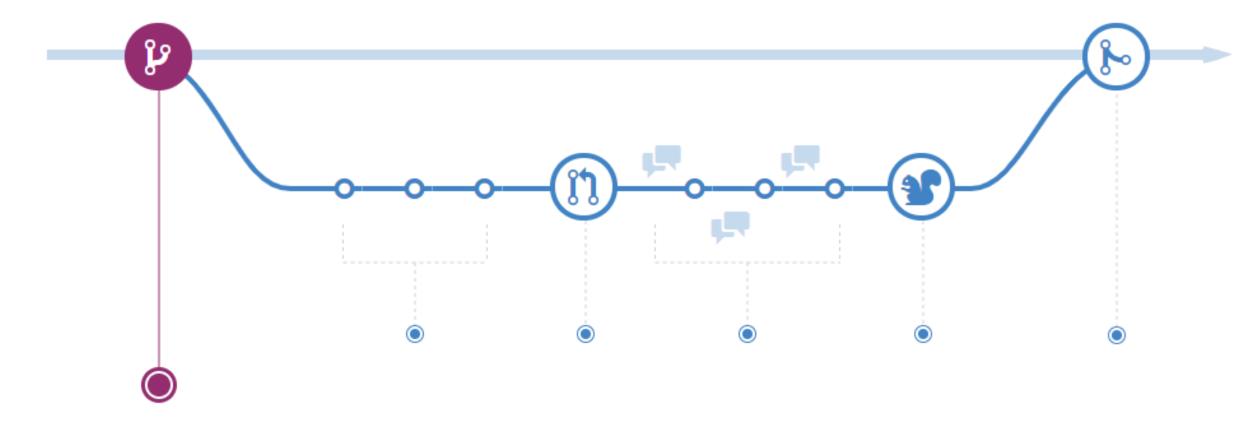
How it works?

That's a simple definition but there's a **whole lot** going on behind the scenes.

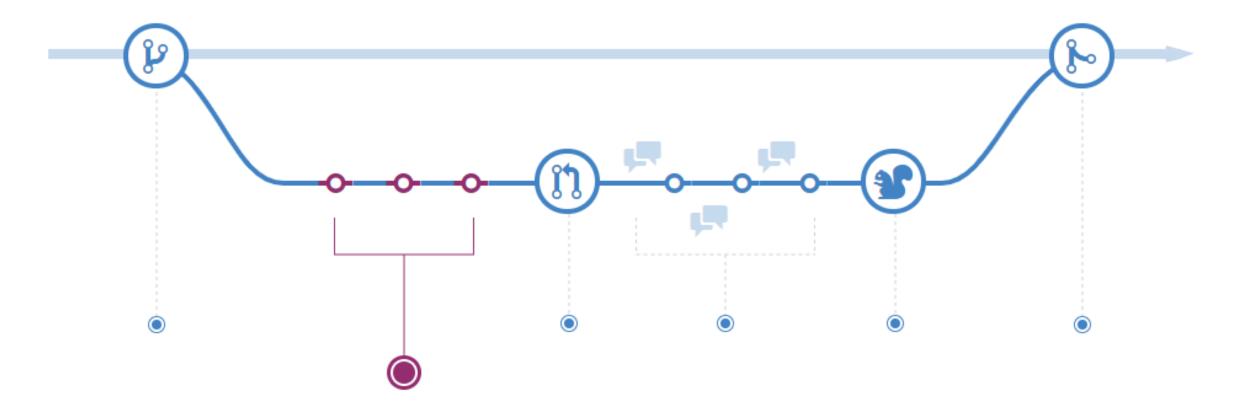
Understanding the GitHub flow

GitHub Flow is a lightweight, branch-based workflow that supports teams and projects where deployments are made regularly. This guide explains how and why GitHub Flow works.

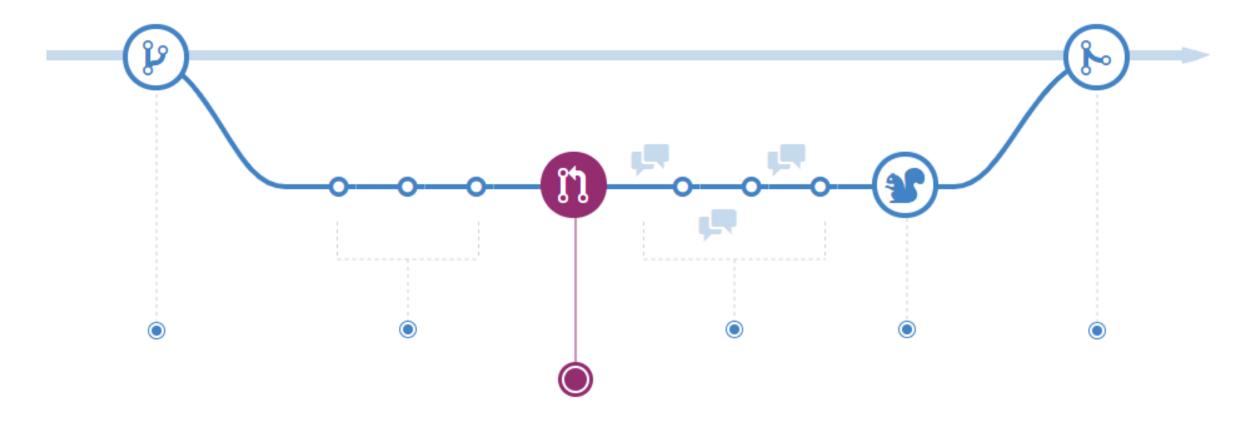
Create a branch



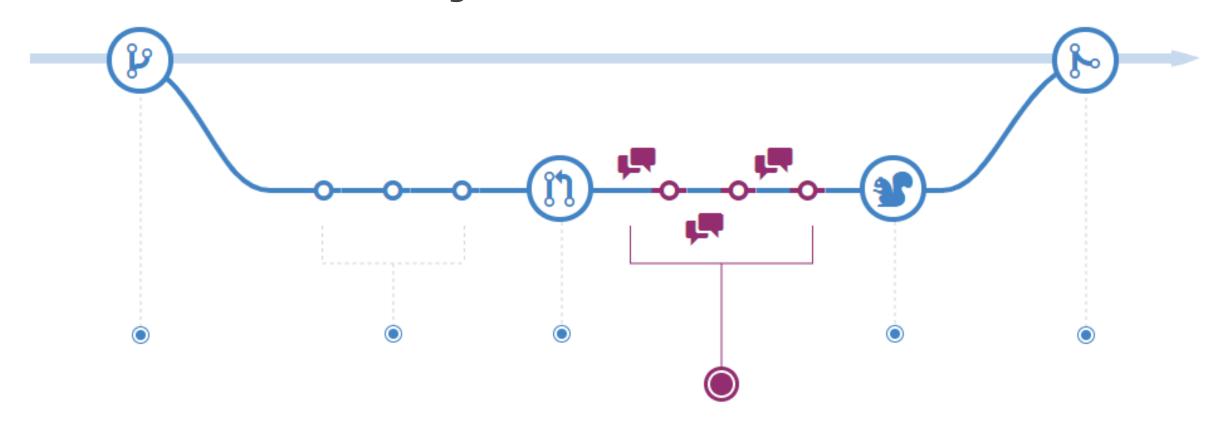
Add commits



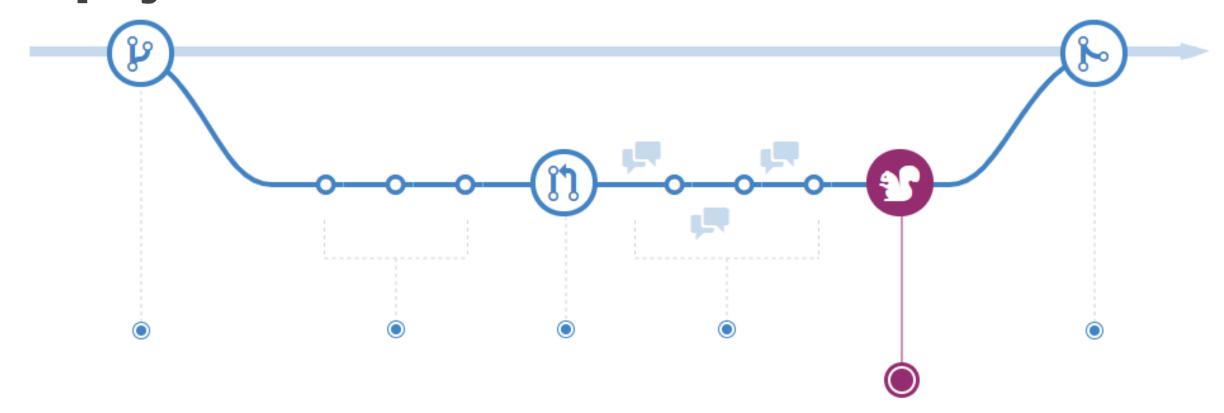
Open a Pull Request



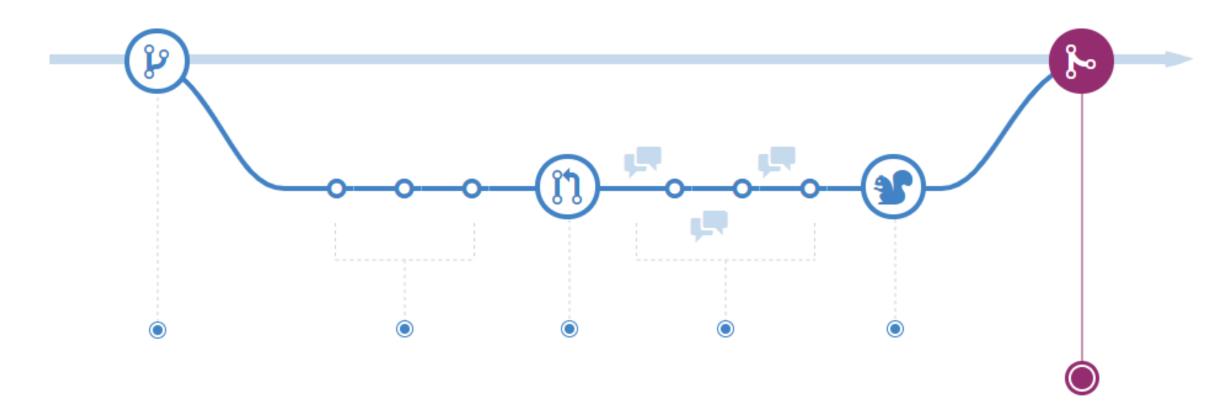
Discuss and review your code



Deploy

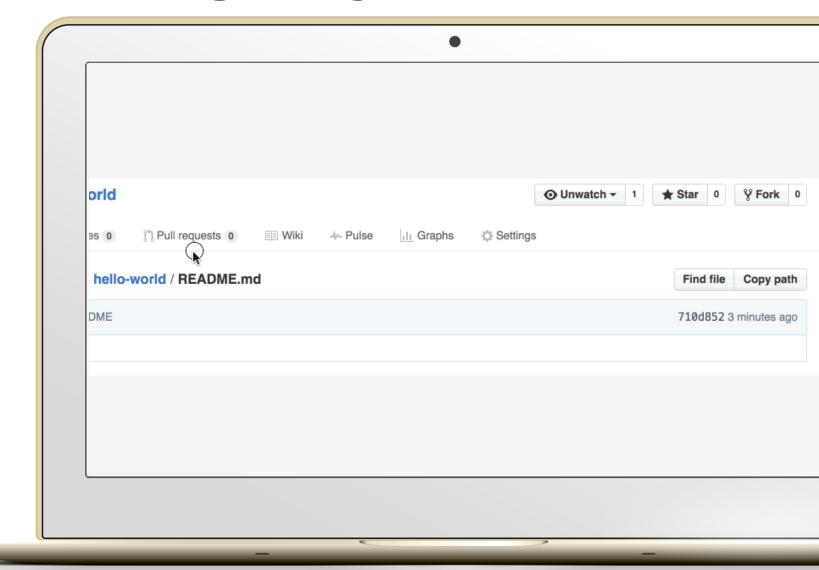


Merge



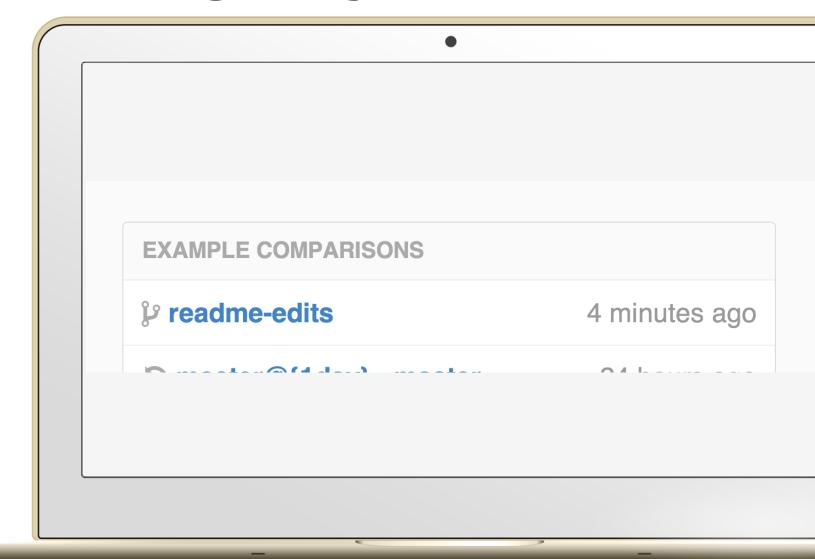
Pull Request

Click the **Pull Request** tab, then from the Pull Request page, click the green **New pull request** button.



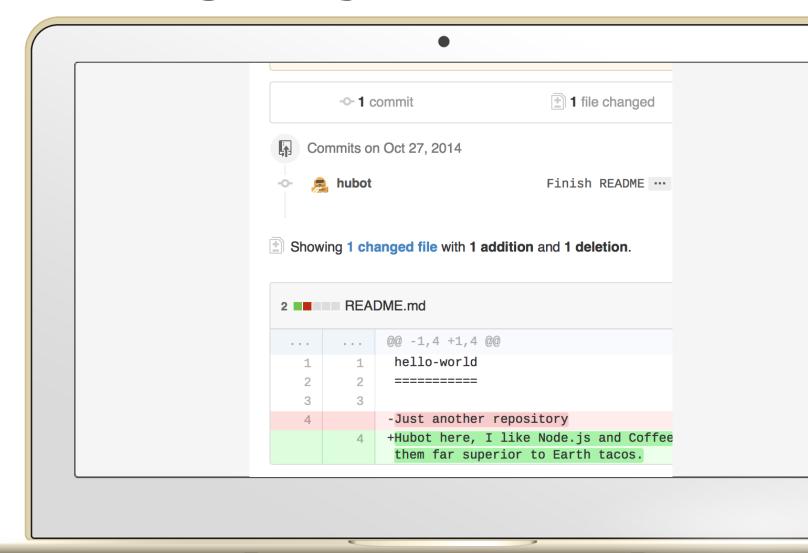
Example Comparisons

In the **Example Comparisons** box, select the branch you made, readme-edits, to compare with master (the original).



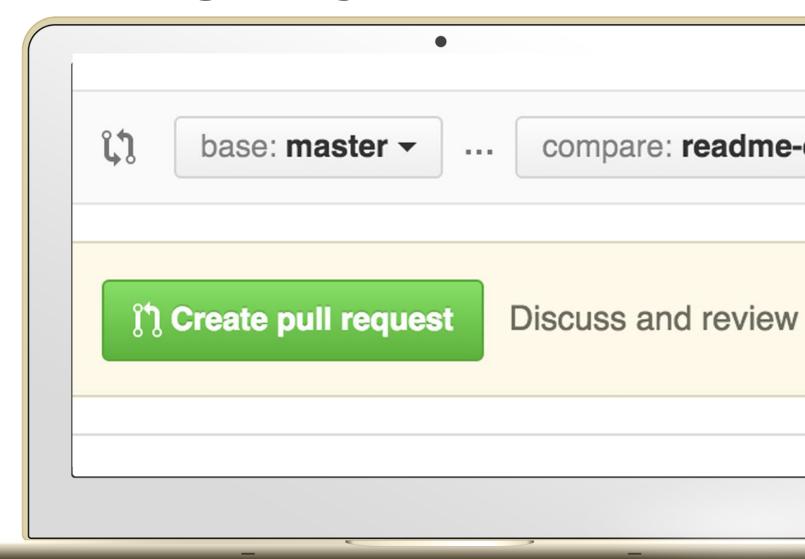
Look over your changes

Look over your changes in the diffs on the Compare page, make sure they're what you want to submit.



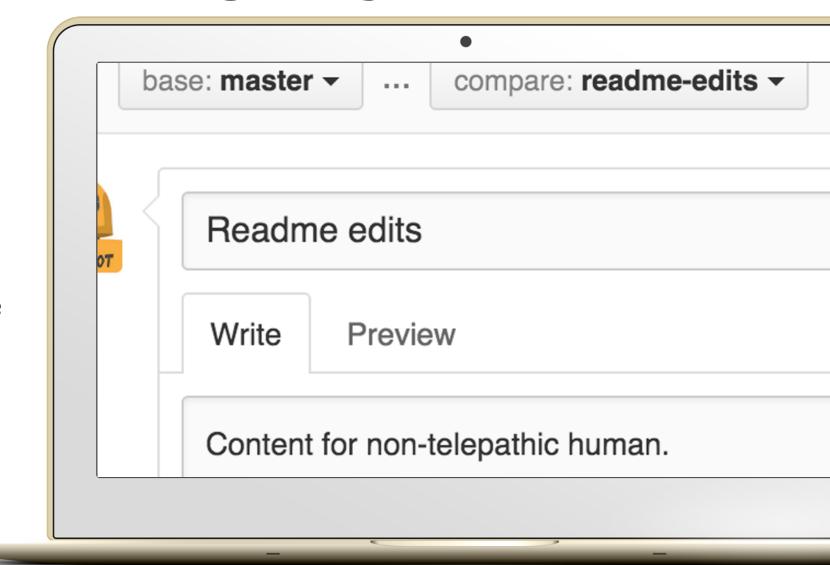
Create Pull Request

When you're satisfied that these are the changes you want to submit, click the big green **Create Pull Request** button.



Create Pull Request

Give your pull request a title and write a brief description of your changes.



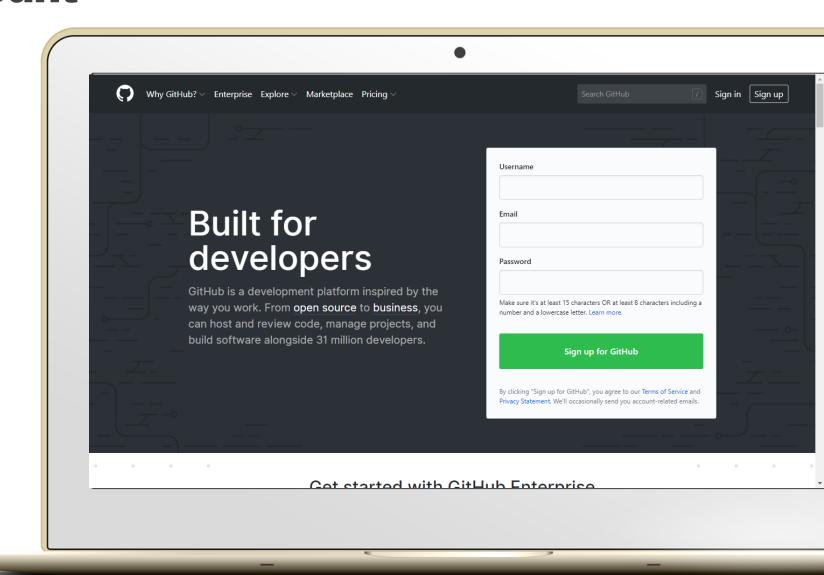


Create Github account

Open this site:

https://github.com

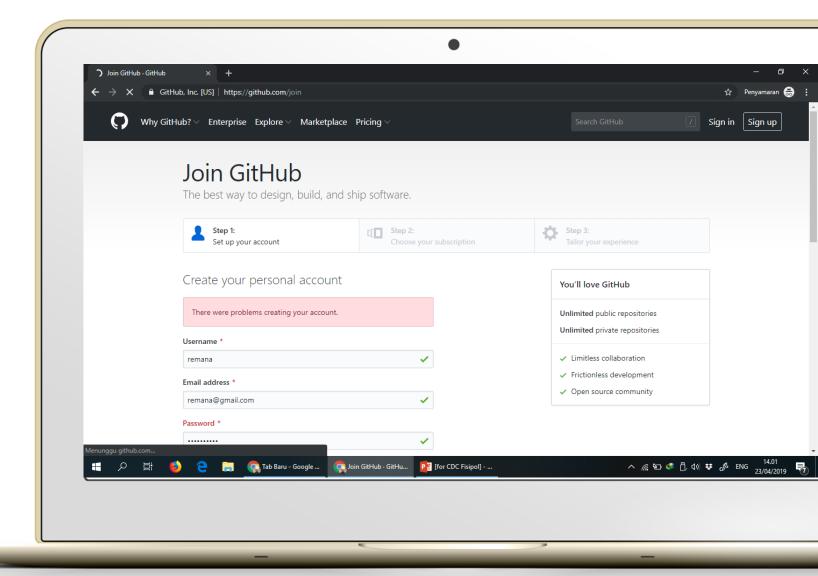
Click "Sign up for Github" (green button)



Create your personal account

Input your:

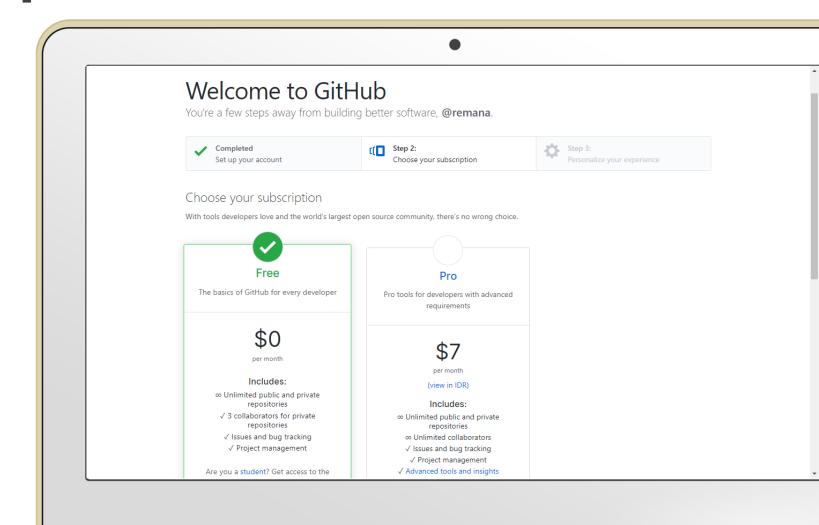
- Username
- Email address
- Password



Choose your subscription

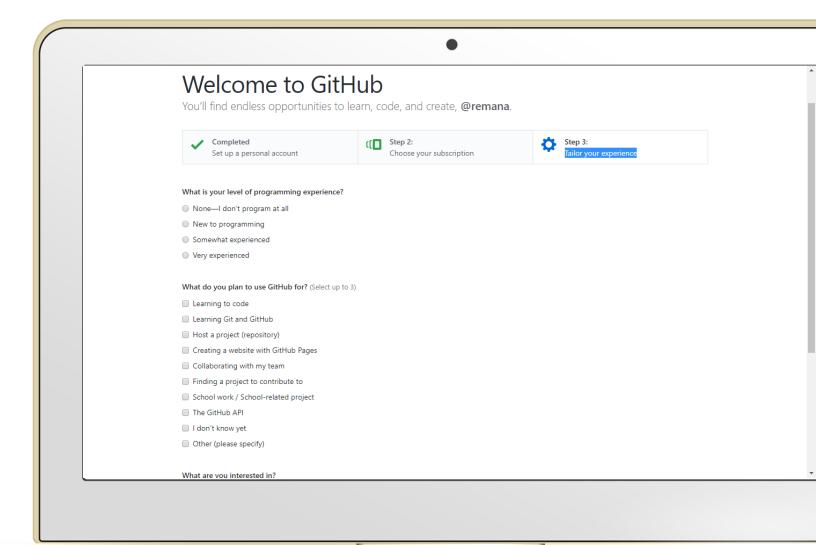
Choose

Free (The basics of GitHub for every developer)



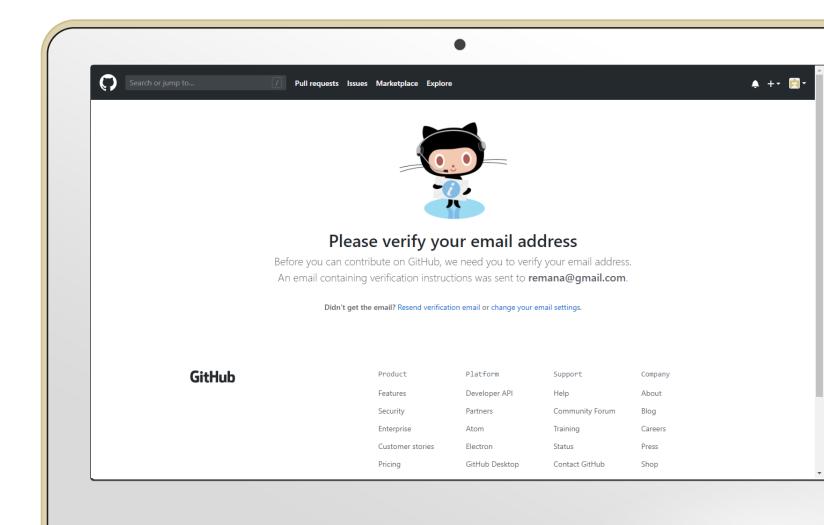
Tailor your experience

You could skip this step



Verify your email address

Check your email inbox for verification

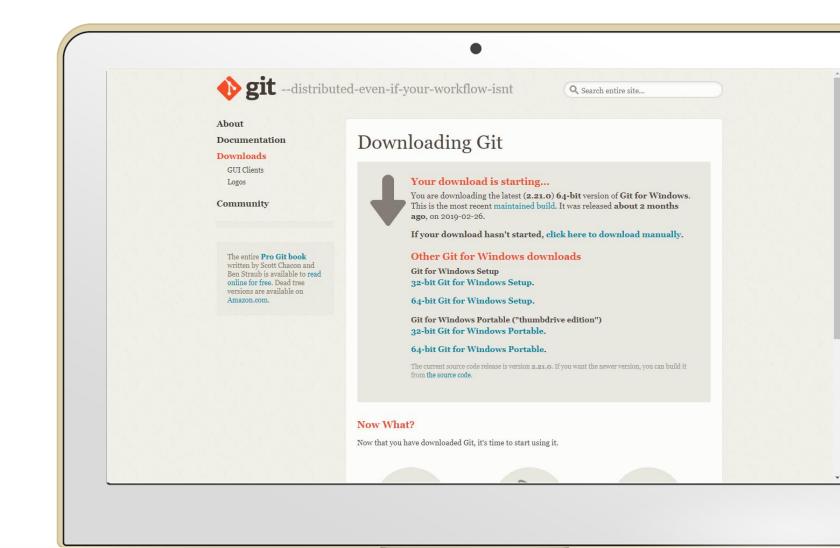


Download Git

Open this site:

https://git-scm.com/download/win

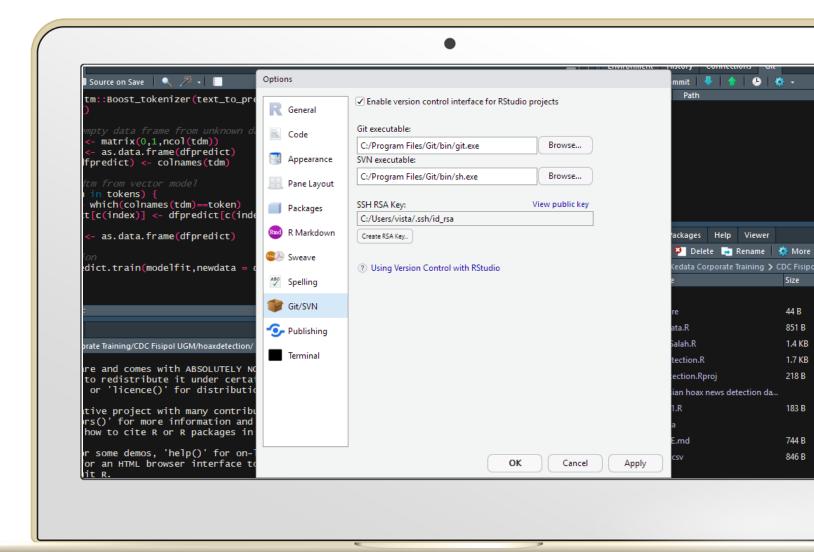
For Windows



Integrate Git with your RStudio

Before open your git project in RStudio, you must integrate your Git location and SSH RSA key

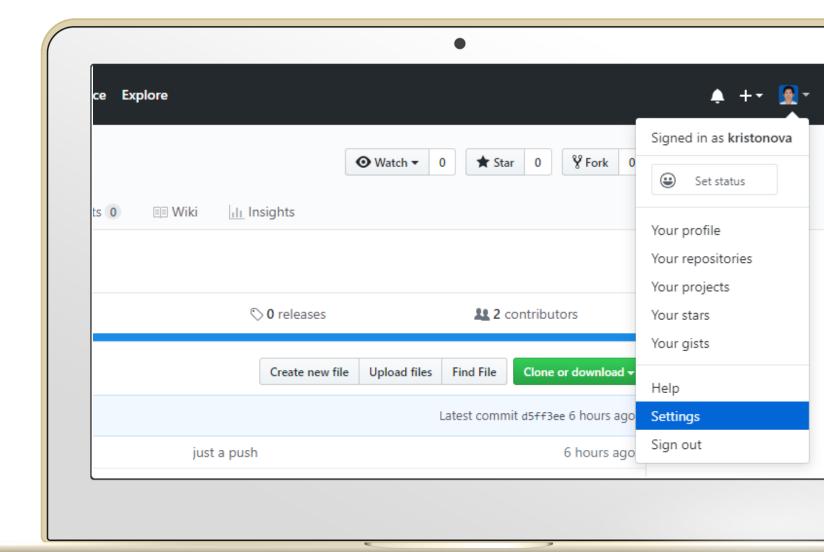
Click Tools → Global Option → Git/SVN



Integrate Git with your RStudio

Now, you must add your Github SSH key with Rstudio environment

Click on your Github Profile → Settings → SSH and GPG keys

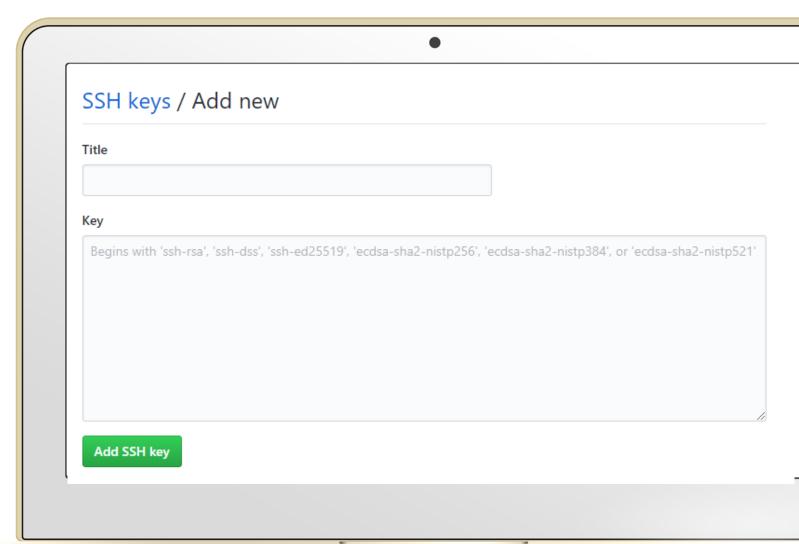


Integrate Git with your RStudio

Click on green button "New SSH Key"

Paste SSH RSA public key from the Rstudio into Github

Then back to Rstudio and create RSA Key



Open your Rstudio

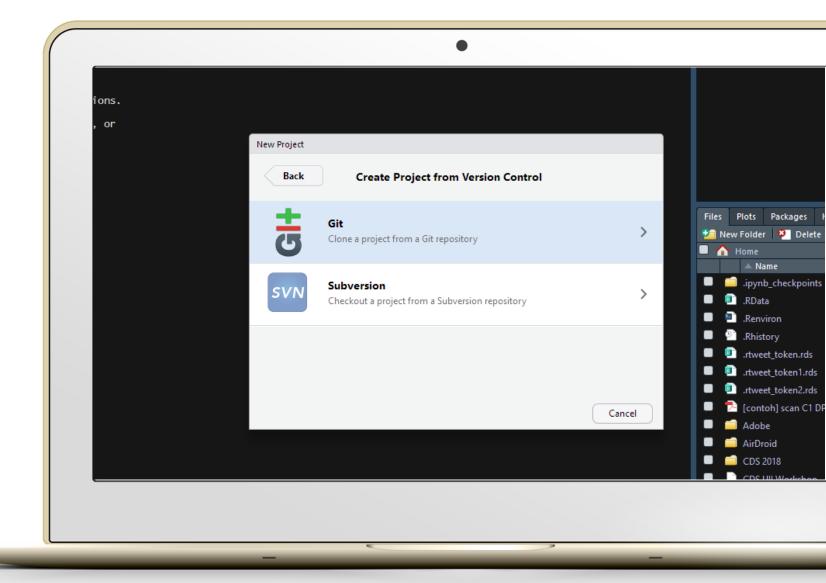
Click File → New Project → Version Control



Create Project from Version Control

Click Git

Clone a project from a Git repository

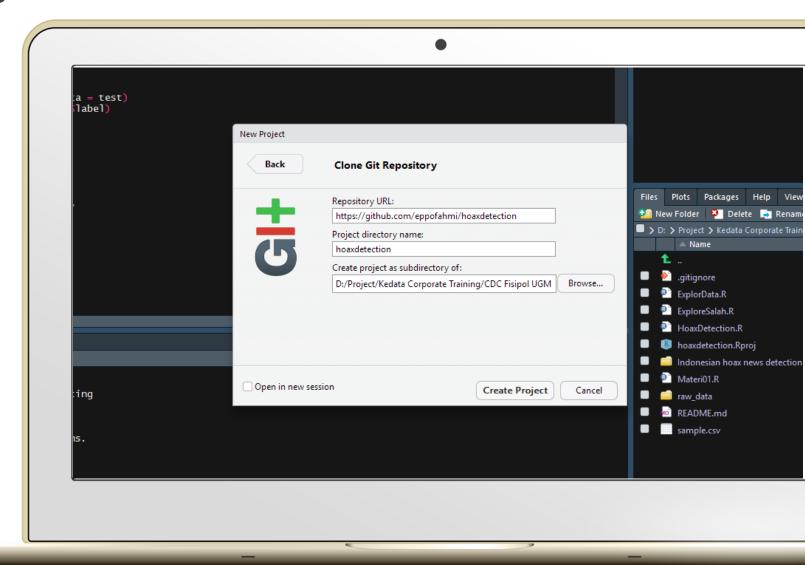


Clone Git Repository

Input Repository URL:

https://github.com/eppofahmi/hoaxdetection

Then click button "Create Project"



Edit your code

After editing your code, click **Save** button

```
D:/Project/Kedata Corporate Training/CDC Fisipol UGM/hoaxdetection - master - RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
🛂 🔹 🚭 🕶 🚽 📄 📥 🖟 Go to file/function 📑 🔻 🔡 • Addins •

    HoaxDetection.R

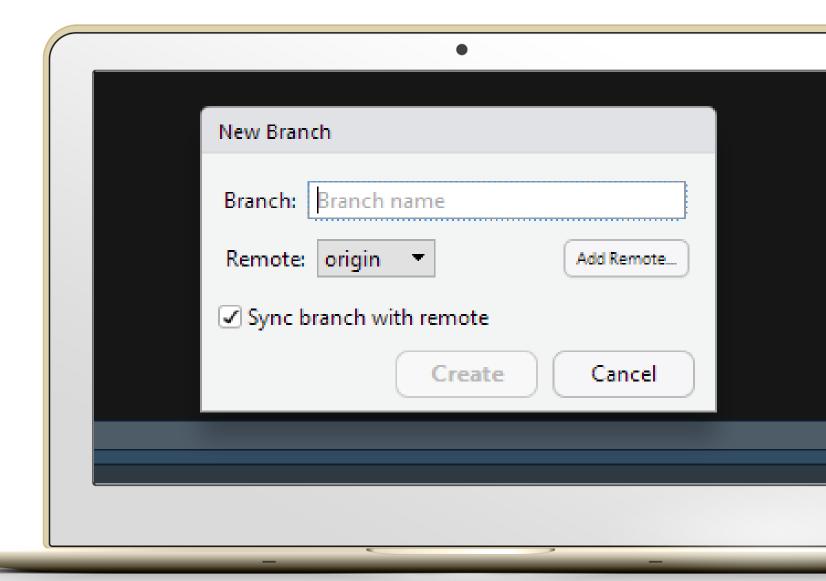
         📶 📗 🔳 Source on Save 🔍 🎢 🗸 📗
       modelpredict <- caret::predict.train(modelfit,newdata = test)</pre>
       confmat <- caret::confusionMatrix(modelpredict,test$label)</pre>
       confmat$overall
       confmat$table
       confmat$byClass
       text_to_predict <- "akhirnya apa apa begitu canggih"
       tokens <- tm::Boost_tokenizer(text_to_predict) %>%
         as.list()
      dfpredict <- matrix(0,1,ncol(tdm))</pre>
       dfpredict <- as.data.frame(dfpredict)</pre>
       colnames(dfpredict) <- colnames(tdm)</pre>
   71 for (token in tokens) {
         index <- which(colnames(tdm)==token)</pre>
         dfpredict[c(index)] <- dfpredict[c(index)] + 1</pre>
       dfpredict <- as.data.frame(dfpredict)</pre>
       caret::predict.train(modelfit,newdata = dfpredict,type="prob")
```

Create your branch

After editing your code, click **Save** button

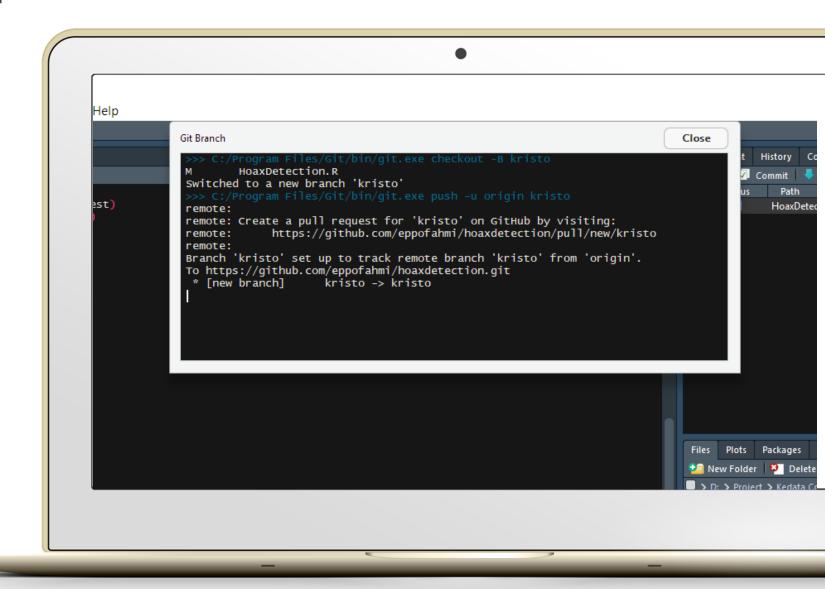
Then click button "New Branch"

Write your branch name, then click **Create**



Create your branch

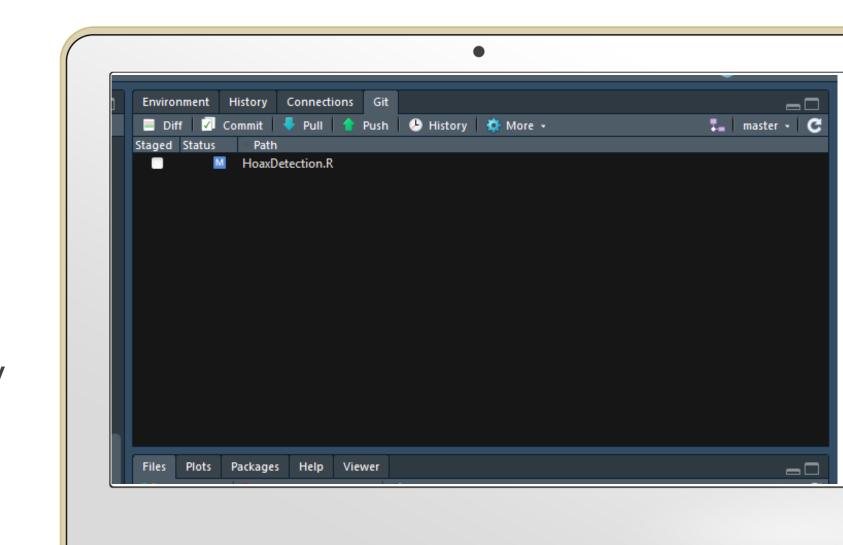
Wait until the process is finished



Commit your edit

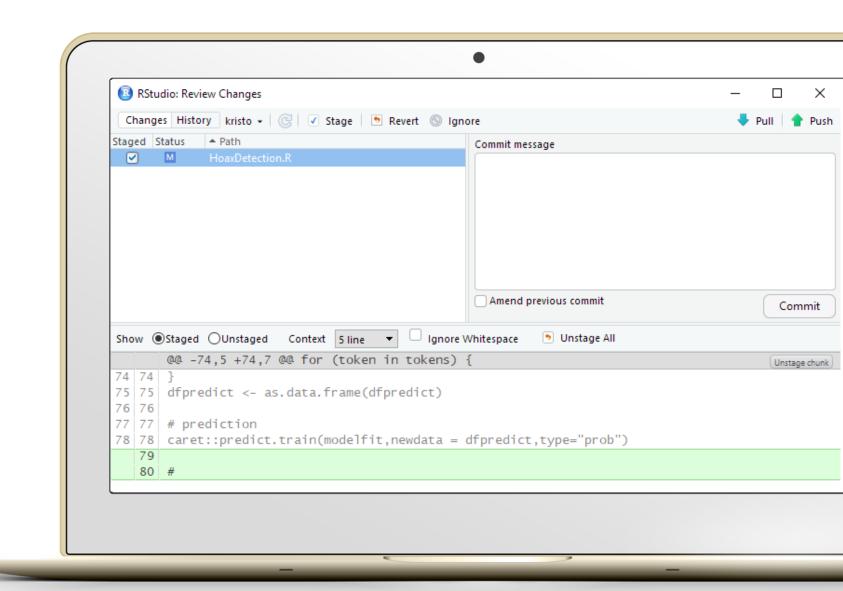
Any edits will affect this bar

You could **commit** the changes you've made by clicking the **Commit** button.



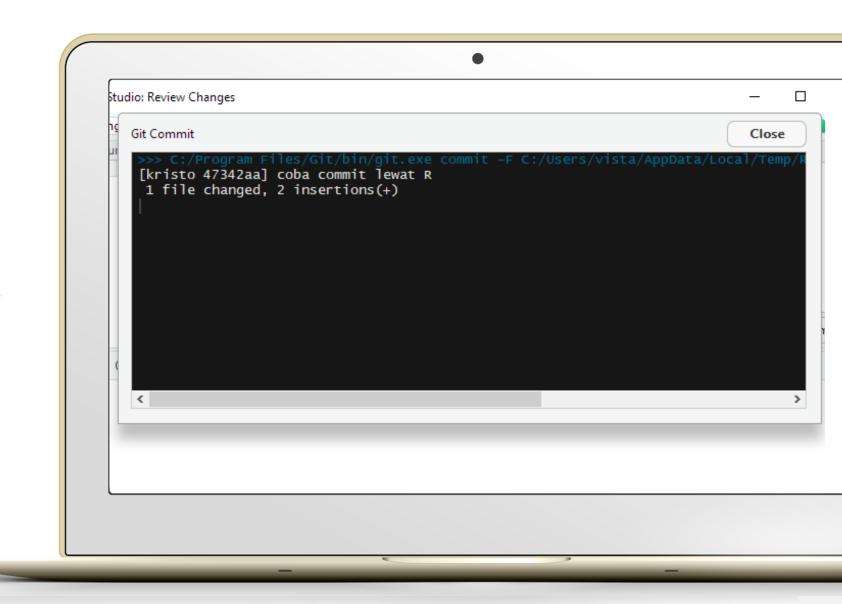
Commit your edit

Type your commit message, and click **commit**



Commit your edit

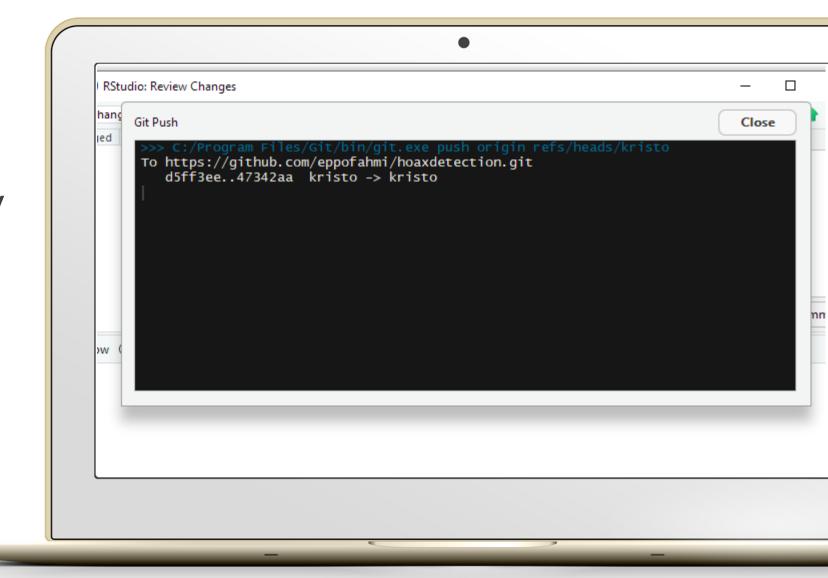
Wait until the processes is finished.



Push your commit

After committing your codes, then pull them into the Github server by clicking

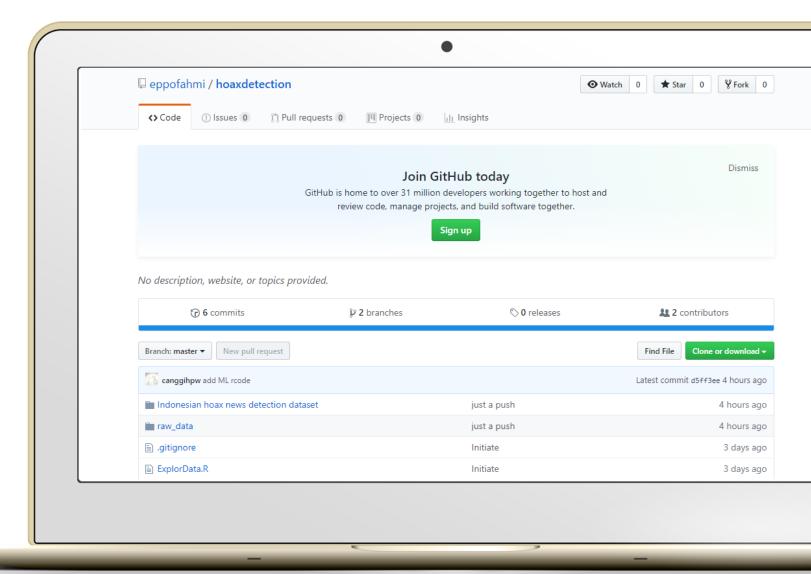
Push button in the upperright



Check your push and branch

Visit link

https://github.com/eppof ahmi/hoaxdetection on your website. Then click branches menu in the top of the file list.



Check your push and branch

Your branch should be here

